## **IN THE CLAIMS:**

- 1 1-8 (CANCELLED)
- 9. (CURRENTLY AMENDED) An apparatus for improving utilization of a data link
- 2 coupled to a network comprising:
- one or more queues configured to hold data, the one or more queues associated
- 4 with an excess rate component;
- a queue manager coupled to the queues and configured to dequeue the data from
- the queues and transfer the data onto the data link;
- auxiliary queue logic coupled to the queue manager and configured to generate
- scores for one or more of the queues, the scores to represent ratings of eligibility to trans-
- 9 <u>fer data in accordance with the excess rate component</u>, the auxiliary queue logic further
- configured to maintain a scorecard of the generated scores and notify the queue manager
- of a queue associated with the highest score in the scorecard to cause the queue manager
- to dequeue data from the queue when the link becomes idle.
- 10. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 9 comprising:
- calendar queue logic coupled to the auxiliary queue logic and configured
- to notify the auxiliary queue logic when the data link becomes idle.
  - 11. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 9 comprising:
- a scheduler coupled to the auxiliary queue logic and configured to maintain at-
- 3 tribute information associated with the queues.

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- 1 12. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 11 wherein the
- 2 auxiliary queue logic is configured to acquire the attribute information associated with

- the queues from the scheduler and use the attribute information to generate scores for the
- 4 queues.
- 13. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 12 wherein the at-
- tribute information includes rate information associated with the queues.
- 14. (CURRENTLY AMENDED) The apparatus as defined in claim 13 wherein the rate
- information includes thean excess rate component.
- 15. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 11 wherein the
- scorecard is a data structure comprising one or more entries, and wherein each entry con-
- tains a score field configured to hold a generated score and a queue identifier (QID) field
- 4 configured to hold a QID associated with a queue.
- 16. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 15 wherein the
- 2 auxiliary queue logic is configured to acquire attribute information and a QID associated
- with a queue, generate a score associated with the queue using the attribute information,
- and place the score and QID in the score and QID fields, respectively, of an entry con-
- 5 tained in the scorecard.
- 1 17-20. (CANCELLED)
- 1 21. (CURRENTLY AMENDED) A method for improving utilization of a data link cou-
- 2 pled to a network comprising:
- holding data in one or more queues coupled to a queue manager, the one or more
- 4 queues associated with an excess rate component;
- generating scores for the one or more of the queues, the scores to represent ratings
- of eligibility to transfer data in accordance with the excess rate component;
- 7 maintaining a scorecard of the generated scores;

	8	determining	that a	data	link	is idle;	and
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- dequeuing, by the queue manager, data from a queue associated with a highest score in the scorecard, and transferring the data onto the data link, in response to determining that the data link has become idle.
- 22. (PREVIOUSLY PRESENTED) The method as defined in claim 21 further compris-
- 2 ing:
- acquiring attribute information associated with the one or more queues; and
- using the attribute information to generate the scores for the one or more queues.
- 23. (PREVIOUSLY PRESENTED) The method as defined in claim 22 wherein the at-
- tribute information includes rate information associated with the queues.
- 24. (CURRENTLY AMENDED) The method as defined in claim 23 wherein the rate in-
- formation includes an the excess rate component.
- 25. (PREVIOUSLY PRESENTED) The method as defined in claim 21 as defined in
- 2 claim 11 wherein the scorecard is a data structure comprising one or more entries, and
- wherein each entry contains a score field configured to hold a generated score and a
- 4 queue identifier (QID) field configured to hold a QID associated with a queue.
- 1 26. (PREVIOUSLY PRESENTED) The method as defined in claim 25 further compris-
- 2 ing:
- acquiring attribute information and a QID associated with a queue;
- 4 generating a score associated with the queue using the attribute information; and
- 5 placing the score and QID in the score and QID fields, respectively, of an entry
- 6 contained in the scorecard.

1	27. (PREVIOUSLY PRESENTED) The method as defined in claim 21 further compris-
2	ing:
3	determining the scorecard is full;
4	in response to the scorecard being full, determining if a generated score is greater
5	than a score contained in the scorecard; and
6	if so, replacing a lowest score in the scorecard with the generated score.
1	28. (PREVIOUSLY PRESENTED) The method as defined in claim 21 further compris-
2	ing:
3	determining the scorecard is not full; and
4	in response to the scorecard being not full, adding a generated score to the score-
5	card.
1	29. (CURRENTLY AMENDED) An apparatus for improving utilization of a data link
2	coupled to a network comprising:
3	one or more queues configured to hold data, the one or more queues associated
4	with an excess rate component;
5	means for generating scores for the one or more of the queues, the scores to repre-
6	sent ratings of eligibility to transfer data in accordance with the excess rate component;
7	means for maintaining a scorecard of the generated scores;
8	means for determining that a data link is idle; and
9	means for dequeuing data from a queue associated with a highest score in the
10	scorecard, and transferring the data onto the data link, in response to determining that the
11	data link has become idle.
1	30. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 29 further com-
2	prising:

and

means for acquiring attribute information associated with the one or more queues;

- means for using the attribute information to generate the scores for the one or
- 6 more queues.
- 31. (CURRENTLY AMENDED) The apparatus as defined in claim 30 wherein the at-
- tribute information includes an the excess rate component.
- 32. (PREVIOUSLY PRESENTED) The apparatus as defined in claim 29 further com-
- 2 prising:
- means for determining if a generated score is greater than a score contained in the
- 4 scorecard; and
- means for replacing a lowest score in the scorecard with the generated score if the
- 6 generated score is greater than a score contained in the scorecard.